

PERSONAL INFORMATION

Name: Alicia Casitas Montero
Researcher ID: **F-6675-2016**; ORCID: **0000-0001-6989-1751**
Date of birth: 28/05/1985 (Age 38 years); Nationality: Spanish

**Assistant Professor (W1) in Organic Chemistry****Philipps-Universität Marburg (Germany)**

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Group website: <https://www.uni-marburg.de/en/fb15/researchgroups/casitas-research-group>

EDUCATION

- 2012 **PhD in Chemistry**: "Reactivity of Well-Defined Organometallic Copper(III) Complexes in Carbon-Heteroatom Bond-Forming Reactions" (*Suma Cum Laude*). University of Girona, Spain. **6th June 2012**.
Supervisors: Dr. Xavi Ribas Dr. Miquel Costas
- 2007 **Bachelor of Science in Chemistry**. Grade 3.2 (1, Pass; 2, Remarkable; 3, Outstanding; 4, With Honors)
First mark of promotion. University of Girona, Spain

RESEARCH EXPERIENCE

- 07/2019 - present **Assistant professor (W1) in Organic Chemistry, Philipps-Universität Marburg, Germany**
(tenure-track position)
- 07/2022 – 3/3023 Maternity leave
- 07/2018 - 06/2019 Group Leader, Institute of Computational Chemistry and Catalysis, University of Girona, Spain
- 01/2016 - 06/2018 Scientific Group Coordinator/ Postdoctoral Researcher, Prof. Julio Lloret-Fillol
Institute of Chemical Research of Catalonia (ICIQ), Spain
- 01/2013 - 12/2015 Postdoctoral Researcher, Prof. Alois Fürstner, Max-Planck-Institut für Kohlenforschung, Germany
- 06/2012 - 12/2012 Research contract, Dr. Xavi Ribas and Dr. Miquel Costas at University of Girona, Spain
- 09/2011 - 11/2011 Visiting Student, Prof. Matthew J. Gaunt, University of Cambridge, United Kingdom
- 08/2009 - 12/2009 Visiting Student, Prof. Shannon S. Stahl, University of Wisconsin-Madison, USA
- 01/2008 - 06/2012 PhD Student, Dr. Miquel Costas and Dr. Xavi Ribas

FELLOWSHIPS AND AWARDS

- 2023 **JSP Fellowship of the Bürgenstock Conference**
- 2021 **Thieme Chemistry Journal Awardee**
- 2016 Juan de la Cierva-Incorporación Postdoctoral Fellowship
- 2013 Postdoctoral fellowship from Fundación Ramón Areces
- 2012 Finalist of the Young Chemists European Award 2012 (PhD level)
- 2011 VI Lilly Awards for Basic Investigation
- 2008 Beca de formación de profesorado universitario (FPU)
- 2007 Best academic profile in Chemistry degree (2003 - 2007) awarded by University of Girona

SELECTED PRESENTATIONS

Invited to a total of 15 talks at conferences, universities and research institutes since July 2019.

- 08/12/2023 GDCh Symposium: Modern Methods in Synthetic Organic Chemistry. Frankfurt, Germany, Invited Talk
- 22/11/2023 Universität Regensburg, Germany. Invited Talk
- 21/06/2023 Georg-August-Universität Göttingen, Germany. Invited Talk
- 14/06/2023 Institut Català d'Investigació Química (ICIQ), Tarragona, Spain. Invited Talk
- 08/05/2023 56th Bürgenstock Conference, Brunnen, Switzerland. Short Oral communication for JSP fellows.
- 23/03/2023 Frühjahrssymposium 2023 from GDCh JCF, Giessen, Germany. Invited Talk
- 10/06/2022 Centro Singular de Investigación en Química Biolóxica e Materiais Moleculares (CiQUS) and Universidade de Santiago de Compostela, Spain. Invited Talk

PUBLICATION SUMMARY

Publications in peer-review journals (total: 18): *Angew. Chem. Int. Ed.* (5), *J. Am. Chem. Soc.* (4), *Chem. Sci.* (4), *Chemistry Eur. J.* (1), *Organometallics* (1), *Synlett* (1). Among them 7 publications have more than 100 citations each. **h-index:** 14; **Number of total citations:** 1817 (Source and date: Web of Science on 13/02/2024). Selected publications:

1. Synthesis of Fe(IV) Alkynylidene Complexes and Their Reactivity to Form 1,3-diyne. Souilah, C.; Jannuzzi, S. A. V.; Demirbas, D.; Ivlev S., Xie, X; Peredkov, S; DeBeer, S.*; **Casitas, A.*** *manuscript under review*
2. Experimental and Computational Studies on Cobalt(I)-Catalyzed Regioselective Allylic Alkylation Reactions. Andreetta, P.; Martin, R. T.; Souilah, C.; Rentería-Gómez, A.; Zhihui Song, Z.; Khorramshahi Bayat, Y.; Ivlev, S.; Gutierrez, O.*; **Casitas, A.*** *Angew. Chem. Int. Ed.* **2023**, 62, e202310129. DOI: 10.1002/anie.202310129.
 - Highlighted in *Organic Process Research & Development (OPR&D)* from ACS Editorial.
3. Synthesis of Fe(IV) cyanide complexes using hypervalent iodine(III) reagents as cyano-transfer one-electron oxidants. Souilah, C.; Jannuzzi, S. A. V.; Demirbas, D.; Swart, M.; Ivlev S., DeBeer, S., **Casitas, A.*** *Angew. Chem. Int. Ed.* **2022**, 61, e202201699. DOI: 10.1002/anie.202201699.
 - Author's profile in ACIE: *Angew. Chem. Int. Ed.* **2022**, e202204754. DOI: 10.1002/anie.202204754
4. Reductive Cyclization of Unactivated Alkyl Chlorides with Tethered Alkenes under Visible-Light Photoredox Catalysis. Claros, M.; Ungeheuer, F.; Franco, F.; Martin-Diaconescu, M.; **Casitas, A.***; Lloret-Fillol, J.* *Angew. Chem. Int. Ed.* **2019**, 58, 4869-4874.

Book Chapters (total 5): **Casitas, A.***; Andreetta, P. "Iron-catalyzed group-transfer reactions with iodine(III) reagents" in *ACAT 74: Earth-Abundant Transition Metal Catalyzed Reactions*. Ed: Montserrat Diéguez and Thierry Ollevier. submitted

Patents: co-author of 2 Spanish patents and 1 European patent that arise from my research stay at Institute of Chemical Research of Catalonia (ICIQ). Two of them comprise the use of metal catalysts for the photocatalytic reduction of organic substrates (Tech-2018/061 and No PCT/ES2017/070314) and one entails the design of a parallel photoreactor (17382313-9-1370).

RESEARCH GRANTS

07/2018 **Research grant:** Junior Leader-Retaining La Caixa Fellowship (ratio of success 10 grants /199 applications)
Title: Development of Sustainable Chemical Processes with Earth-Abundant Metals (SUSCHEM-EARTH)
Principal investigator: Alicia Casitas **Funding Body:** LaCaixa Bank Foundation **Duration:** 3 years from 1/7/2018 – 30/6/2021 (cancelled on 31/6/2019) **Amount awarded:** 305.700 € (including PI's salary)

SUPERVISION ACTIVITIES

PhD students (total 4): Charafa Souilah (September 2019); Philip Andreetta (October 2020); Kapil Medhi (September 2023); Felix Debbeler (February 2024); and a total of 4 master students and 8 bachelor students.

TEACHING ACTIVITIES

Professor in organic chemistry at Philipps-Universität Marburg:
 Summer Semester 2021-2023: Allgemeine Chemie (General Chemistry), bachelor course, in German.
 Winter Semester 2019-2023 (except 2022): Methods of Synthesis, master course, in English.

TRUST COMMITTEES

- September 2020: Appointment to the GDCh commission for the Hermanos Elhuyar - Hans Goldschmidt-Lecture.
- Mentoring Hessen Program: mentoring of female research scientists at PhD and postdoc stages.
- **Committee member of PhD defense (total 6):** **1)** 23rd February 2018. Oriol Planas at Universitat de Girona, Spain. (supervisors: Prof. Xavi Ribas and Dr. Anna Company). **2)** 10th November 2021. Shin-Ho Kim-Lee at Universidad Autónoma de Madrid, Spain (supervisors: Prof. Ramón Gómez Arrayás and Dr. Pablo Mauleón). **3)** 10th June 2022. Borja Cendón, Universidade de Santiago de Compostela, Spain (Supervisors: Prof. José Luís Mascareñas and Dr. Moisés Gulías). **4)** Alèria Garcia, ICIQ (supervisor: Prof. Arjan Kleij). **5)** Jiayu Zhang, ICIQ (supervisor: Prof. Mónica H. Pérez-Temprano). **6)** Jonathan Martínez, Universidad de Huelva (supervisors: Prof. Pedro Pérez and Dr. Ana Caballero).
- Since July 2019 acceptance to review a total of 20 research manuscripts for high-impact journals: *Angewandte Chemie* (10), *ACS Catalysis* (1), *Organic Letters* (4), *Chemical Science* (1) and *Nature Communications* (1), among others.